COPY FOR CONTINUING APPLICATION

DOCKET NO. 3239.1000-020

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Declaration for Patent Application

I acknowledge the duty to disclose information which is material to patentability as defined in 37 C.F.R. §1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application. I hereby claim foreign priority benefits under 35 U.S.C. 119 or 365 of any foreign application(s) for patent or inventor's certificate, or of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application or patent or inventor's certificate, or of any PCT international application having a filing date before that of the application on which priority is claimed: Prior Foreign Application(s)			[]	Sup	plemental (3	37 C.F.R. §1.6	7)					
I believe I am the original, first and sole inventor (if only one name is listed) or an original, first and joint inventor (if plural names are listed in the signatory page(s) commencing at page 2 hereof) of the subject matter whi is claimed and for which a patent is sought on the invention entitled Method and Apparatus for Electrospray-Augmented High Field Asymmetric Ion Mobility Spectrometry the specification of which (check one) [] is attached hereto. [X] was filed onApril 12, 2002 as United States Application Number or PCT International Application No10/123.030 and was amended on (if applicable). I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above. I acknowledge the duty to disclose information which is material to patentability as defined in 37 C.F.R. \$1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application. I hereby claim foreign priority benefits under 35 U.S.C. 119 or 365 of any foreign application(s) for patent or inventor's certificate, or of any PCT international application which designated at least one country other than the Juited States of America, listed below and have also identified below, by checking the box, in foreign application or patent or inventor's certificate, or of any PCT international application having a filing date before that of the pupilication on which priority is claimed: Prior Foreign Application(s) Priority Certified Not Copy Filed? Claimed YES NO Number) (Country) (Day/Month/Year filed) [] [] [] [] [] [] [] [] [] [] [] [] []		As a named inven	tor, I hereby de	eclare th	at:							
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Number or PCT International Application No		•	•									
Number or PCT International Application No	[X]	was filed onA	pril 12, 2002		as United	States Applicatio	n					
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Prior Foreign Application(s) Prior Foreign Application(s) Prior Foreign Application(s) Number) Prior Gountry) (Country) (Country) (Day/Month/Year filed) Portificate, or of any PCT international application which designated at least one country other than the Juited States of America, listed below and have also identified below, by checking the box, any foreign application or patent or inventor's certificate, or of any PCT international application having a filing date before that of the application on which priority is claimed: Prior Foreign Application(s) Priority Certified Not Copy Filed? Claimed YES NO Number	iling d	including for continu late of the prior appli	iation-in-part a	pplicatio	ns, material in	formation which I	became	e avail	able	hetwe	en th	R. e
Not Copy Filed? Claimed YES NO Number) (Country) (Day/Month/Year filed) [] [] [] Number) (Country) (Day/Month/Year filed)	or pate	ntor's certificate, or of States of America, li ent or inventor's certi	of any PCT inte isted below and ficate, or of an	ernationa I have al:	d application v so identified b	which designated a	it least	one co	ountr	y othe	r tha	n the
Number) (Country) (Day/Month/Year filed) Number) (Country) (Day/Month/Year filed)		·		Prior F	oreign Applic	ation(s)	N	ot	Y Y	Сору Е	iled	
Number) (Country) (Day/Month/Year filed)	Numbe	er)	(Country)		(Day/Month	/Year filed)	. []	[]	[J
Number) (Country) (Day/Month/Year filed)	Numbe	er)	(Country)		(Day/Month	Year filed)	. []	[]	[]
	Numbe	er)	(Country)		(Day/Month	Year filed)	. []	[]	[]

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of sole	**	
or first inventor	Raanan A. Miller	
Inventor's Signature	Raanan A. Miller	Date/3/15/6スト
Residence	27 Intervale Road	·
	Brookline, Massachusetts 02467	
Citizenship	USA	
•	Same as Above	
Full name of second join	int	
inventor, if any	Erkinjon G. Nazarov	
	58 Emerson Gardens	
	Lexington, Massachusetts 02420	
Citizenship	UZBEKISTAN	
Mailing Address	Same as Above	
Full name of second joi	int	
inventor, if any	Gary A. Eiceman	·
Inventor's Signature		Date
Residence	2020 Turrentine Drive	
	Las Cruces, New Mexico 88005	
Citizenship	USA	
Mailing Address	Same as Above	
Full name of second joi	nt	
inventor, if any	Evgeny Krylov	
Inventor's Signature		Date
Residence		
	Las Cruces, New Mexico 88001	
Citizenship		
Mailing Address	Same as Above	

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Declaration for Patent Application

		[] S	Supplemental (37 C.F.R. §1.6	7)				•	
	As a named inven	tor, I hereby declar	e that:						
	My residence, mai	iling address and ci	tizenship are as stated next to my n	ame;					
invent is clair	or (if plural names ar	e listed in the signa	ole inventor (if only one name is lightory page(s) commencing at page 2 the invention entitled						
	Method and Appa	ratus for Electrospr	ray-Augmented High Field Asymm	etric Ior	<u>Mob</u>	ility S	Spectr	ome	trv
the spe	ecification of which (check one)						-	
[]	is attached hereto.								
[X]	was filed onAr	oril 12. 2002	as United States Application	on					
	Number or PCT Ir	nternational Applica	ation No. 10/123.030						
	and was amended	on	(if applicable).						
includ	I hereby state that ing the claims, as amo	I have reviewed an ended by any amen	d understand the contents of the abdment referred to above.	ove-ide	ntified	spec	ificati	ion,	
§1.56, filing of applica	including for continudate of the prior appli	iation-in-part applic	formation which is material to pate cations, material information which onal or PCT international filing dat	became	e avail	able	betwe	en tl	.R. ie
United for pat	entor's certificate, or o	of any PCT internat isted below and hav ficate, or of any PC	ts under 35 U.S.C. 119 or 365 of an tional application which designated we also identified below, by checkin CT international application having	at least	one c	ountr y fore	y othe	er the	an the
		<u>Pr</u>	ior Foreign Application(s)	N	ority ot imed	(Y	Certi Copy I ES	Filed	l? !O
(Numb	per)	(Country)	(Day/Month/Year filed)	[]])
(Numb	er)	(Country)	(Day/Month/Year filed)	[]	.[]	[]

(Day/Month/Year filed)

(Country)

(Number)

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of sole		
	Raanan A. Miller	
	27 Intervale Road	
	- ··· · · · · · · · · · · · · · · · · ·	·
Citizenship	USA	
Mailing Address	Same as Above	
Full name of second jo	int	
inventor, if any	Erkinjon G. Nazarov	
Inventor's Signature	Mich	Date 10/16/63
	58 Emerson Gardens	č (
	Lexington, Massachusetts 02420	·
	UZBEKISTAN	
	Same as Above	
Full name of second joi	nt	
inventor, if any	Garv A. Eiceman	
	2020 Turrentine Drive	
	I C NI M - 1 - 00005	
	USA	
	. Campa Alica	
Full name of second joi	nt	,
inventor, if any	Evgeny Krylov	
Inventor's Signature		Date
Residence	1685 Cole Village	
	Las Crucas Naw Marian 22001	
Citizenship	RUSSIA	
Mailing Address		

^{::}ODMA\MHODMA\iManage;316765;1

[]

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Declaration for Patent Application

	[] Supplemental (37 C.F.R. §1.67)
	As a named inventor, I hereby declare that:
	My residence, mailing address and citizenship are as stated next to my name;
invento	I believe I am the original, first and sole inventor (if only one name is listed) or an original, first and joint or (if plural names are listed in the signatory page(s) commencing at page 2 hereof) of the subject matter whic ned and for which a patent is sought on the invention entitled
	Method and Apparatus for Electrospray-Augmented High Field Asymmetric Ion Mobility Spectrometry
the spe	ecification of which (check one)
[]	is attached hereto.
[X]	was filed on April 12, 2002 as United States Application
	Number or PCT International Application No. 10/123,030
	and was amended on (if applicable).
includi	I hereby state that I have reviewed and understand the contents of the above-identified specification, ng the claims, as amended by any amendment referred to above.
§1.56, filing d applica	I acknowledge the duty to disclose information which is material to patentability as defined in 37 C.F.R. including for continuation-in-part applications, material information which became available between the late of the prior application and the national or PCT international filing date of the continuation-in-part tion.
United for pate	I hereby claim foreign priority benefits under 35 U.S.C. 119 or 365 of any foreign application(s) for patent ntor's certificate, or of any PCT international application which designated at least one country other than the States of America, listed below and have also identified below, by checking the box, any foreign application ent or inventor's certificate, or of any PCT international application having a filing date before that of the tion on which priority is claimed:
	Prior Foreign Application(s) Priority Certified Not Copy Filed? Claimed YES NO

(Day/Month/Year filed)

(Day/Month/Year filed)

(Day/Month/Year filed)

(Number)

(Number)

(Number)

(Country)

(Country)

(Country)

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of sole		
	Raanan A. Miller	
	27 Intervale Road	
	Brookline, Massachusetts 02467	
Citizenship	USA	
_	Same as Above	
Full name of second jo	pint	
inventor, if any	Erkinjon G. Nazarov	
Inventor's Signature		Date
	58 Emerson Gardens	
	Lexington, Massachusetts 02420	
Citizenship	UZBEKISTAN	
Mailing Address	Same as Above	
	oint Gary A. Eiceman	
Inventor's Signature	CIVIN	Date Nev 5 2002
	2020 Turrentine Drive	, , , , , , , , , , , , , , , , , , ,
	Las Cruces, New Mexico 88005	
Citizenship	USA	
Mailing Address	Same as Above	
Full name of second jo	pint	
inventor, if any	Evgeny Krylov	
Inventor's Signature	Elper	Date 11/05/02
Residence	1685 Cole Village	(
	Las Cruces, New Mexico 88001	
Citizenship	RUSSIA	
Mailing Address		

^{::}ODMA\MHODMA\iManage;316765;1

HAMILTON, LAOOK, SMITH & REYNOLDS, P.C.

POWER OF ATTORNEY OR AUTHORIZATION OF AGENT AND CORRESPONDENCE ADDRESS

Application Number	10/123,030
Filing Date	April 12, 2002
First Named Inventor	Raanan A. Miller
Confirmation Number	2772
Group Art Unit	2881
Examiner Name	Not Yet Assigned
Attorney Docket Number	3239.1000-020

Title Method and Apparatus for Electrospray-Augmented High Field Asymmetric Ion Mobility Spectrometry

I/We hereby appoint
[X] the attorneys/agents associated with Customer No. 021005
[] Practitioner(s) named below:
as my/our attorneys/agents to prosecute the application identified above, and to transact all business in the United States Patent and Trademark-Office connected therewith.
The correspondence address for the above-identified application is:
[X] Customer Number 021005
Hamilton, Brook, Smith & Reynolds, P.C.
530 Virginia Road
P.O. Box 9133
Concord, Massachusetts 01742-9133
[] Other
Please direct all telephone calls and facsimiles to:
T-1 No. 070 044 0000 Fee No. 070 244 0426
Name David J. Thibodeau, Jr. Tel. No. 978-341-0036 Fax No. 978-341-0136
I am the:
l am the:
l am the: [] Applicant/Inventor.
 Applicant/Inventor. [X] Authorized representative of the Assignee, The Charles Stark Draper Laboratory, Inc., of the entire interest. See 37 C.F.R. 3.71. A Statement under 37 C.F.R. §3.73(b) is enclosed. [] Authorized representative of the Assignee, [], together with [], of the entire interest. A separate Statement under 37 C.F.R. § 3.73(b) is enclosed.
 am the: [] Applicant/Inventor. [X] Authorized representative of the Assignee, The Charles Stark Draper Laboratory, Inc., of the entire interest. See 37 C.F.R. 3.71. A Statement under 37 C.F.R. §3.73(b) is enclosed. [] Authorized representative of the Assignee, [], together with [], of the entire interest. A separate Statement under 37 C.F.R. § 3.73(b) is enclosed.
 Applicant/Inventor. [X] Authorized representative of the Assignee, The Charles Stark Draper Laboratory, Inc., of the entire interest. See 37 C.F.R. 3.71. A Statement under 37 C.F.R. §3.73(b) is enclosed. [] Authorized representative of the Assignee, [], together with [], of the entire interest. A separate Statement under 37 C.F.R. § 3.73(b) is enclosed.

Docket No. 3239.1000-020

STATEMENT UNDER 37 C.F.R. § 3.73(b)

Applica	ant(s):	Raanan A. Miller, Erkinjon G.	Nazarov, Gary A. Eiceman and Evgeny Krylov
Applica	ation No.	: 10/123,030	Filed: April 12, 2002
For:	Method	d and Apparatus for Electrospray	y-Augmented High Field Asymmetric Ion Mobility Spectrometry
	The Ch	narles Stark Draper Laboratory, I	Inc. , a corporation , (Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)
states th	hat it is	`	
A.	[X]	the assignee of the entire right	, title and interest in the patent application identified above; or
B.	[]		of the entire right, title and interest in the patent application identified under 37 CFR § 3.73(b) is being submitted.
The rig	ht, title a	and interest of the above-named a	assignee in the patent application identified above is established by virtue of:
A. [X]	and Tra	ignment from the inventor(s) of ademark Office at Reel <u>013468</u> nereof is attached.	the patent application identified above. The assignments were recorded in the Patent, Frame 0397-0402, and at Reel 013510, Frame 0052-0067 or a
OR		.1	
B.[]	A chair	n of title from the inventor(s) of	the patent application identified above, to the current assignee as shown below:
	1.	The document was recorded in	To: the Patent and Trademark Office at, or a copy thereof is attached.
	2.	The document was recorded in	To: To: n the Patent and Trademark Office at, or a copy thereof is attached.
	3.		To: the Patent and Trademark Office at, or a copy thereof is attached.
	[] A	dditional documents in the chain	of title are listed on a supplemental sheet.
The un	dersigned	d (whose title is supplied below)	is authorized to act on behalf of the assignee.
Date:_	JUL 1	1 5 2003	
Name:	Joseph	M. Wolfe	
Title:_	Vice P	resident and/Treasurer	
Signati	ure:	Wys	
@PFDes	sktop\: OU	MA/MHODMA/iManage;403531;1	

COPY

<u>Joint</u>

ASSIGNMENT

WHEREAS, we, Raanan A. Miller, Erkinjon G. Nazarov, Gary A. Eiceman, and Evgeny Krylov, have invented a certain improvement in METHOD AND APPARATUS FOR ELECTROSPRAY-AUGMENTED HIGH FIELD ASYMMETRIC ION MOBILITY SPECTROMETRY described in an application for Letters Patent of the United States, the specification of which:

[].	is being executed on even date herewith and is about to be filed in the United States Patent Office;
[X]	was filed on April 12, 2002 as Application No. 10/123,030;
[]	was patented under U.S. Patent No. [] on [].

WHEREAS, The Charles Stark Draper Laboratory, Inc. (hereinafter "ASSIGNEE"), a corporation organized and existing under the laws of the Commonwealth of Massachusetts, and having a usual place of business at 555 Technology Square, Cambridge, Massachusetts 02139-3563 desires to acquire an interest therein in accordance with agreements duly entered into with us;

NOW, THEREFORE, to all whom it may concern be it known that for and in consideration of said agreements and of other good and valuable consideration, the receipt of which is hereby acknowledged, we have sold, assigned and transferred and by these presents do hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns and legal representatives, the entire right, title and interest in and throughout the United States of America, its territories and all foreign countries, in and to said invention as described in said application, together with the entire right, title and interest in and to said application and such Letters Patent as may issue thereon; said invention, application and Letters Patent to be held and enjoyed by said ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held by us had this assignment and sale not been made; we hereby convey all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property by filing any such applications for Letters Patent. We hereby acknowledge that this assignment, being of the entire right, title and interest in and to said invention, carries with it the right in ASSIGNEE to apply for and obtain from competent authorities in all countries of the world any and all Letters Patent by attorneys and agents of ASSIGNEE's selection and the right to procure the grant of all such Letters Patent to ASSIGNEE for its own name as assignee of the entire right, title and interest therein;

AND, we hereby further agree for ourselves and our executors and administrators to execute upon request any other lawful documents and likewise to perform any other lawful acts which may be deemed necessary to secure fully the aforesaid invention to said ASSIGNEE, its successors, assigns and legal representatives, but at its or their expense and charges, including the execution of applications for patents in foreign countries, and the execution of substitution, reissue, divisional or continuation applications and preliminary or other statements and the giving

of testimony in any interference or other proceeding in which said invention or any application or patent directed thereto may be involved;

AND, we do hereby authorize and request the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said application or applications based thereon to said ASSIGNEE, its successors, assigns, and legal representatives.

Inventor Janan A. Veller Raanan A. Miller	Date	1/28/2003
Address 27 INTERVALE RD		
CHESTNUT-HILL, MYA 02467		
Witness Moun		
Address 44 Am 84		
Scetucife MA 02066		
Witness Olim Canou		
Address 244 GIOVE St.		
Newton MA 0246b		

	Inventor Date 01/28/03
	Address 58 Emerson Gardons Rat
	Address 58 Emerson Gardens Ral Lexington, MA, 02420.
Witness	Induac
Address	The harmonic of the second of
	Schnafe MA 02066
Witness	Relion Carrole
Address	244 Grove St.
	Meuten MA 02466

			1 -			
	Inventor	Gary A. F	Eiceman		Date	
	Address					
Witness Address		· · · · · · · · · · · · · · · · · · ·			•	
Audicss				·		
Witness					,	
Address		 				

	Inventor				,	Date	
	Hivehior		Evgeny K	rylov			
	Address						
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Witness							-
Address				· · · · · · · · · · · · · · · · · · ·			
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Witness							
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Address							<u></u>
		· · · · · · · · · · · · · · · · · · ·					

Joint

ASSIGNMENT

WHEREAS, we, Raanan A. Miller, Erkinjon G. Nazarov, Gary A. Eiceman, and Evgeny Krylov, have invented a certain improvement in METHOD AND APPARATUS FOR ELECTROSPRAY-AUGMENTED HIGH FIELD ASYMMETRIC ION MOBILITY SPECTROMETRY described in an application for Letters Patent of the United States, the specification of which:

[]	is being executed on even date herewith and is about to be filed in the United States Patent Office;
[X]	was filed on April 12, 2002 as Application No. 10/123,030;
[]	was patented under U.S. Patent No. [] on [].

WHEREAS, The Charles Stark Draper Laboratory, Inc. (hereinafter "ASSIGNEE"), a corporation organized and existing under the laws of the Commonwealth of Massachusetts, and having a usual place of business at 555 Technology Square, Cambridge, Massachusetts 02139-3563 desires to acquire an interest therein in accordance with agreements duly entered into with us;

NOW, THEREFORE, to all whom it may concern be it known that for and in consideration of said agreements and of other good and valuable consideration, the receipt of which is hereby acknowledged, we have sold, assigned and transferred and by these presents do hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns and legal representatives, the entire right, title and interest in and throughout the United States of America, its territories and all foreign countries, in and to said invention as described in said application, together with the entire right, title and interest in and to said application and such Letters Patent as may issue thereon; said invention, application and Letters Patent to be held and enjoyed by said ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held by us had this assignment and sale not been made; we hereby convey all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property by filing any such applications for Letters Patent. We hereby acknowledge that this assignment, being of the entire right, title and interest in and to said invention, carries with it the right in ASSIGNEE to apply for and obtain from competent authorities in all countries of the world any and all Letters Patent by attorneys and agents of ASSIGNEE's selection and the right to procure the grant of all such Letters Patent to ASSIGNEE for its own name as assignee of the entire right, title and interest therein;

AND, we hereby further agree for ourselves and our executors and administrators to execute upon request any other lawful documents and likewise to perform any other lawful acts which may be deemed necessary to secure fully the aforesaid invention to said ASSIGNEE, its successors, assigns and legal representatives, but at its or their expense and charges, including the execution of applications for patents in foreign countries, and the execution of substitution, reissue, divisional or continuation applications and preliminary or other statements and the giving

of testimony in any interference or other proceeding in which said invention or any application or patent directed thereto may be involved;

AND, we do hereby authorize and request the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said application or applications based thereon to said ASSIGNEE, its successors, assigns, and legal representatives.

		Raanan A. Miller	D /
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